

8947

Original

Diag. Cht. No. 8102-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
Field No. LJ-10-3-67 Office No. H-8947

LOCALITY

State ALASKA
General locality CLARENCE STRAIT
Locality GRINDALL AND STREET ISLANDS

1967

CHIEF OF PARTY

Wayne L. Mobley

LIBRARY & ARCHIVES

DATE 7 AUG 1970

USCOM-DC 5007

2768

HYDROGRAPHIC TITLE SHEET

H-8947

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

LJ-10-3-67

State S.E. Alaska

General locality Clarence Strait

Locality Grindall Island

Scale 1:10,000 Date of survey July 11 to Aug. 17, 1967

Instructions dated Feb. 1, 1967 Project No. OPR-465

Vessel USC&GSS LESTER JONES & Motor Launch 1192 (Lch 1)

Chief of party LCDR W.L. Mobley & Lt. M.H. Fleming

Surveyed by J.B. Courtney & M.H. Fleming

Soundings taken by echo sounder, hand lead, pole DE 723

Graphic record scaled by Ships Personnel

Graphic record checked by Ships Personnel

Protracted by ^{*Gerber*} Digital plotter Automated plot by Pacific Marine Center

Soundings penciled by NA

Soundings in fathoms ~~XXX~~ at ~~MLW~~ MLLW

REMARKS:

DESCRIPTIVE REPORT

- To Accompany

Hydrographic Survey H-8947/LJ-10-3-67

USC&GSS LESTER JONES

LCDR W. L. Mobley, Cmdg. to July 27, 1967

LT M. H. Fleming, Cmdg. from July 27, 1967

A. PROJECT -

This survey is a part of OPR-465 Instructions dated Feb. 1, 1967 and Change No. 1 dated 15 March 1967, Change No. 2 dated 31 March 1967, and Change No. 3 dated 16 June 1967.

B. AREA SURVEYED -

This survey is in Clarence Strait, S.E. Alaska. The area surveyed surrounds Grindall and Streets Islands, and includes Grindall Passage and the coast of Kasaan Peninsula south of Latitude 55° 30' 30"N and east of Longitude 132°10'30"W. Junctions were made with surveys H-8770 and H-8771. Hydrography was begun on July 11, 1967 and completed on August 17, 1967.

C. SOUNDING VESSEL -

USC&GS Launch 1192 was used for all soundings and its position numbers are shown in Blue on the boat sheet.

D. SOUNDING EQUIPMENT -

Raytheon Model 723 Fathometers were used. Serial No. 821 was used in July and No. 214 in August. Both require the same velocity and transducer corrector, which was compiled from bar check results and an oceanography station. All soundings are in fathoms and chart speed was on slow for entire ^{swing} _{survey}. Times are 120°W.

E. SMOOTH SHEET -

Smooth sheet will be plotted by Electronic Data Processing methods by Pacific Marine Center.

F. CONTROL -

Visual Control was used for the entire survey. Existing triangulation or photo identification was used for the location of all signals. Advance manuscripts No. T-10698 and T-11504 and Incomplete manuscripts T-10694 were used in establishing control.

G. SHORELINE -

Shoreline was transferred from Advance Manuscripts No. T-10698 and T-11504 and Incomplete Manuscript T-10694. Shoreline has been verified and Field Edit of manuscripts covering the area surveyed completed.

H. CROSSLINES -

Ten percent of the sounding lines were crosslines and all gave satisfactory checks.

I. JUNCTIONS -

Satisfactory junctions were made with all contemporary surveys. A portion of a sounding line from a prior survey H-8771 would, however, seem to be in error. This line at Latitude 55°26.7'N, Longitude 132° 05.8'W is in an area of extremely steep sloping bottom where soundings are difficult to obtain. All new soundings in this area would tend to indicate that the sounding from survey H-8771 (Boat Sheet B) are in error by forty fathoms, or one scale of the fathogram.

J. COMPARISON WITH PRIOR SURVEYS -

Pre-Survey Review Items:

Item #1. Fish traps all gone, delete from chart.

Item #2. Remains of pilings are present but bare only at very low tides. Should remain charted.

All circled soundings on Pre-Survey Review that fall within this survey were investigated. They are in general agreement with this survey. The smooth tides and other correctors may bring the minimum depths to better agreement. Due to the extremely rugged bottom in the area surveyed a more shoal depth, if shown on the pre-survey review, could only satisfactorily be proven or disproven by wire drag methods.

The charted shoal at Latitude 55°26', Longitude 132°06' was satisfactorily developed in accordance with project instructions.

K. COMPARISON WITH CHART -

8142 5th Ed Jan 10/66

1. All fish traps shown on Chart ~~8412~~ are no longer present.
2. The largest discrepancy is in the extent and location of the shoals around Streets Island and between Streets Island and the Mainland. The best channel is nearer Streets Island and there is a 3 ⁶/₁₀ fathom shoal at Lat. 55°28.58', Long. 132°08.53', in what is charted to be the channel. There is an uncharted ledge off the southeastern tip of Streets Island. Its limit is Position No. 1089.

L. ADEQUACY OF SURVEY -

This survey is complete and adequate to supersede prior surveys.

M. AIDS TO NAVIGATION -

There are no aids to navigation within limits of this survey.

N. STATISTICS -

Number of Positions	1667
Nautical miles of sounding lines	1670 164
Area surveyed - sq. nautical miles	4.8
Bottom Samples taken	61
Oceanographic Station	1

O. MISCELLANEOUS -

The area of survey is characterized by rocky and steeply sloping shores and strong offshore currents.

Grindall Island and Kasaan Peninsula are heavily forested to the storm high water line.

P. RECOMMENDATIONS -

None

Q. REFERENCE TO REPORTS -

Bottom Samples forwarded to: Oceanography Division
8 November 1967

Photogrammetry Field Edit forwarded to: Photogrammetry Division
16 February 1968

Tides Verified: Tides & Currents Branch
2 February 1968

Respectfully submitted

John B. Courtney
ENSIGN, ESESSA

H-8947 - TIDE NOTE

Actual tides as recorded at a bubbler gage in Lyman Anchorage (Lat. 55°32'15"N, Long. 132°17'25"W), Clarence Strait, were used to reduce soundings for smooth sheet. Predicted tides for Lyman Anchorage were used to reduce soundings for Boat Sheet. Elevation of MLLW on 1967 staff, Lyman Anchorage, was received from headquarters office. All tidal observations were recorded in 120°W longitude time.

ECHO CORRECTIONS

Boat Sheet Soundings were not corrected for draft or velocity. They were reduced for predicted tides.

SMOOTH CORRECTORS

Initial: During the survey the fathogram initial was maintained at Zero. Any variations from this was compensated for in logging the survey sounding data for smooth plotting by Electronic Data Processing.

<u>Initial Corrector</u>	<u>Logged as</u>
-0.2	+0.1
-0.1	+0.2
0.0	+0.3
+0.1	+0.4
+0.2	+0.5

This was necessary since the computer will not accept negative values in this instance. This +0.3 fathoms is compensated for by velocity corrections.

Velocity: An oceanographic station was taken in the vicinity of the survey on July 21, 1967. This oceanographic data was used to compute the velocity correctors.

One table of Velocity Correctors is used for the entire survey. The bar check and transducer depth corrections are included in the velocity computations.

<u>Velocity Correctors</u> <u>As calculated</u>		<u>Velocity Correctors</u> <u>As Logged</u>	
Depth	Corrector	Depth	Corrector
To 2.5 fms.	+0.3	2.5 fms.	0
10.0	+0.4	10.0	+1
21.5	+0.5	21.5	+2
31.0	+0.6	31.0	+3
122.0	+0.7	122.0	+4
195.0	+0.9	195.0	+6

These should be tenths - check seconds for this error RNC

All velocity correctors are reduced by 0.3 fathoms to compensate for all initial correctors that were increased by 0.3 fathoms.

LYMAN TIDE GAGE

Tide Reducers - H-8947

This is printout of Tide
Tape and upon verification by
Washington the Tape need be
corrected as per changes shown
on this Printout.

Corrected Tapes Made and checked

J.B.C.
Feb 8, 1968

TIDE REDUCERS
 on Lyman Anchorage Gage.
 SE ALASKA

H-8947

TIME	TIDE	JULIAN
120 W	CORRECTOR	DAY 1967
080800	00 1005 0000	192 1 000000 000000
081800	00 1004	
0829 082900	00 1003	
084000	00 1002	
085200	00 1001	
090900	00 0000	
092900	00 0001	
095500	00 0002	
104000	00 0003	
110500	00 0002	
112700	00 0001	
114100	00 0000	
115300	00 1001	
120400	00 1002	
121400	00 1003	
122200	00 1004	
123100	00 1005	
124000	00 1006	
125000	00 1007	
130200	00 1008	
131100	00 1009	
132000	00 1010	
133000	00 1011	
133800	00 1012	
134700	00 1013	
135500	00 1014	
140400	00 1015	
141300	00 1016	
142300	00 1017	
143300	00 1018	
144500	00 1019	
145700	00 1020	
150700	00 1021	
152000	00 1022	
153500	00 1023	
160000	00 1024	
171400	00 1025	
173800	00 1024	
175300	00 1023	
080700	00 1010 0000	193 1 000000 000000
081800	00 1009	
082700	00 1008	
083600	00 1007	
084300	00 1006	
085200	00 1005	
090300	00 1004	
091500	00 1003	
092800	00 1002	
094200	00 1001	
100000	00 0000	
102300	00 0001	

THE CORRECTION IS APPLIED IN THE TIME INTERVAL FROM, BUT NOT INCLUDING, THE PREVIOUS TABULATED TIME UP TO AND INCLUDING THE TIME OF THE TABULATED CORRECTION.

CORRECTORS ARE IN TENTHS OF FATHOMS FOR NEGATIVE CORRECTION, FIRST DIGIT IS 1

114800

~~14800~~ 00 0001

120300 00 0000

121900 00 1001

123100 00 1002

124500 00 1003

125800 00 1004

1310 ~~1301~~ 00 1005

132000 00 1006

132900 00 1007

133800 00 1008

134500 00 1009

135400 00 1010

140200 00 1011

141100 00 1012

142100 00 1013

143000 00 1014

144000 00 1015

145100 00 1016

150200 00 1017

151300 00 1018

152600 00 1019

153800 00 1020

155000 00 1021

160200 00 1022

161600 00 1023

163500 00 1024

175000 00 1025

080600 00 1015 0000 194 1 000000 000000

081500 00 1014

082500 00 1013

083500 00 1012

084800 00 1011

085800 00 1010

091000 00 1009

092000 00 1008

093000 00 1007

094000 00 1006

095000 00 1005

100200 00 1004

101700 00 1003

103600 00 1002

110000 00 1001

121000 00 1000

123500 00 1001

125500 00 1002

131200 00 1003

132500 00 1004

133700 00 1005

134800 00 1006

135900 00 1007

141000 00 1008

142000 00 1009

143100 00 1010

144200 00 1011

145100 00 1012

150100 00 1013

151100 00 1014

152100 00 1015

153200 00 1016

154400 00 1017

155500 00 1018

160600 00 1019

161800 00 1020
163000 00 1021
164600 00 1022
170400 00 1023
173100 00 1024
180000 00 1025
081100 00 1010 0000 199 1 000000 000000
082300 00 1011
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084500 00 1013
085600 00 1014
090800 00 1015
092000 00 1016
093400 00 1017
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100800 00 1019
103000 00 1020
111000 00 1021
114200 00 1022
122600 00 1021
125000 00 1020
131000 00 1019
132700 00 1018
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140000 00 1016
141700 00 1015
143200 00 1014
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161200 00 1009
172000 00 1008
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083000 00 1006
084000 00 1007
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091100 00 1010
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093200 00 1012
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095300 00 1014
100500 00 1015
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103000 00 1017
104200 00 1018
105800 00 1019
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164300 00 1009
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082800 00 0000
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082700 00 1003
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092000 00 0000
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154000 00 1023
171000 00 1024
080900 00 1009 0000 207 1 000000 000000
081900 00 1008
083000 00 1007
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090600 00 1004
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094000 00 1002
101500 00 1001
105500 00 0000
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115100 00 1002
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141100 00 1015
142800 00 1014
144300 00 1013
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152100 00 1011
154800 00 1010
162500 00 1009
170000 00 1008

Plane of Reference Approved
Datum Planes Section
Date 2-2-68

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAM- PLER	AP- PROX. TRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, coherence, density, cutter, size, no., type of bottom roller, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
VESSEL <i>Hester Jones</i> PROJ. NO. <i>OPR 465</i> YEAR <i>67</i> CHECKED BY <i>Clarence ST</i> DATE CHECKED											
Crew: <i>Grindall</i> <i>Alaska</i>											
2516	Aug 15 '67	55°26'05"	132°08'18"		15 lb					4 data No Sample	
2517	"	55°26'25"	132°08'30"						dkG, M, wood		
2518	"	55°26'27"	132°08'49"						P, Brk Sh		
2519	"	55°26'22"	132°09'20"						P, Brk Sh		
2520	"	55°26'30"	132°09'41"						Brk Sh, sbg,		
2521	"	55°26'42"	132°10'07"						St		
2522	Aug 17 '67	55°27'00"	132°10'31"						Brk Sh, S		
2523	"	55°26'52"	132°10'11"						S, Fnd Brk Sh G		
2524	"	55°27'02"	132°09'18"						Brk Sh, Sea weed Co		
2525	"	55°26'47"	132°09'38"						brk Sh, Sea weed		
2526	"	55°26'56"	132°08'55"						brk Sh,		
2527	"	55°26'53"	132°08'49"						sbg, brk Sh		
2528	"	55°27'17"	132°09'13"						brk Sh		
2529	"	55°27'29"	132°09'08"						Fnd brk Sh, S		
2530	"	55°27'27"	132°08'52"						Gn S Fnd Brk Sh		
2530	"	55°27'29"	132°08'52"						Gn S Fnd Brk Sh		

Use more than one line per sample if necessary.

21
22
23
30

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAMP- PLER	AP- PROX- TRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS <small>(Unusual conditions, observations, dented cutter, stat. no. type of bottom, relief, etc., slope, plain, disposition, etc.)</small>	OBS. INIT.
		LATITUDE	LONGITUDE								
2531	Aug 17 '67	55° 21' 23"	132° 08' 50"		5			gy	SRSK		
2532		55° 21' 05"	132° 08' 30"		2				P		
2533		55° 21' 07"	132° 06' 37"		3				P		
2534		55° 21' 19"	132° 07' 00"		5						
2535		55° 21' 24"	132° 07' 46"		5						
2536		55° 21' 27"	132° 07' 38"		3			GN	M		
2537		55° 21' 01"	132° 07' 49"		2						
2538											
2539											
2540											
2541											
2542											
2543											
2544											
2545											

6PR 465
YEAR 67
LJ-10-3-67
Grindall
Clarence Stiff

CHECKED BY

DATE CHECKED

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAMP- PLER	AP- PROX. TRA- TION	LENGTH OF CORE	COLOR OF SEDI- MENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesiveness, dented cutter, stat. no., type of bottom relief, etc., slope, plain, disposition, etc.)	OBSER- VATION
		LATITUDE	LONGITUDE								
2537	Aug 22	55°28'01"	132°07'49"	48	15 lb			GN	P, St, S, P		
2538	"	55°27'45"	132°07'52"	75				GN	S, P		
2539	"	55°27'33"	132°08'06"	36				GN	G, P		
2540	"	55°28'26"	132°08'00"	39				GN	P, St, S		
2541	"	55°28'32"	132°08'17"	16					P		
2542	"	55°28'34"	132°07'56"	6					Seaweed		
2543	"	55°28'56"	132°08'12"	20					Bk Sh, seaweeds		
2544	"	55°28'50"	132°08'42"	30					P		
2545	"	55°29'04"	132°09'07"	37					G, P		
2546	"	55°29'18"	132°09'30"	45					S, P		
2547	"	55°29'32"	132°09'35"	49					P, S		
2548	"	55°29'43"	132°09'54"	44						3 casts No sample	
2549	"	55°29'56"	132°09'58"	51					G		
2550	"	55°30'01"	132°10'19"	46					St, S, Bk Sh		
2551	"	55°30'10"	132°10'33"	35					bks sh, wood		
2552	"	55°30'19"	132°10'18"	60					P		
2553	"	55°30'33"	132°10'41"	52					Sbg		

VESSEL *Reston Jones* PROJ. NO. *OR 465* YEAR *67* CHECKED BY *G. Kirkall* DATE CHECKED
LJ-10-3-67 *Clarence Staff*

Use more than one line per sample if necessary.

OCEANOGRAPHIC LOG SHEET - M
BOTTOM SEDIMENT DATA

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

VESSEL **Lester Jones** PROJ. NO. **OPR. 465** YEAR **67** CHECKED BY **LJ - 10-3-67** DATE CHECKED

SERIAL NO.	DATE	SAMPLE POSITION		DEPTH (Fathoms)	WEIGHT OF SAMPLER	AP. PROX. EXTENSION	LENGTH OF CORE	COLOR OF SEDIMENT	FIELD DESCRIPTION	REMARKS (Unusual conditions, cohesionless, denuded, cutter, stat. no., type of bottom relief, etc.)	OBS. INIT.
		LATITUDE	LONGITUDE								
2554	Aug 77	55° 27' 15"	132° 09' 14"	13	15 lb			DTGN	S. FINE BRK SH		
2555	"	55° 26' 46"	132° 08' 52"	10				LTGN	S. FINE BRK SH, P.C.		
2556	"	55° 26' 57"	132° 08' 32"	11	10			GN	M. FINE BRK SH		
2557	"	55° 27' 39"	132° 08' 27"	11	10				S.P.	3 CASTS HARD BOTTOM	
2558	"	55° 28' 07"	132° 08' 24"	7	5				P.	3 CASTS HARD BOTTOM	
2559	"	55° 28' 32"	132° 08' 40"	11				LTGN	KEIP G. FINE BRK SH		
2560	"	55° 28' 41"	132° 09' 05"	10	8				BRK SH.	3 CASTS HARD BOTTOM	
2561	"	55° 28' 54"	132° 09' 31"	10	6			GN	FINE BRK SH.	3 CASTS	

Use more than one line per sample if necessary.

Geographic Names Penciled on H-8947

GRINDALL ISLAND
STREETS ISLAND
GRINDALL POINT
GRINDALL PASSAGE
KASAAN PENINSULA
CLARENCE STRAIT

SIGNALS H-8947

H-NO.	Sig. NO.	LATITUDE	LONGITUDE	SOURCE	
8947	301	55270313"	132075714"	T-10698	1
8947	342	55304185	132112688	"	1
8947	302	55265891	132082293	"	1
8947	303	55265435	132082669	"	1
8947	304	55265393	132085816	"	1
8947	305	55270206	132093588	"	1
8947	306	55270856	132091395	"	1
8947	307	55272247	132091264	"	1
8947	308	55273288	132090301	"	1
8947	309	55272063	132083296	"	1
8947	310	55263595	132091275	"	1
8947	311	55263210	132084200	"	1
8947	312	55263304	132083187	"	1
8947	313	55262903	132082305	"	1
8947	314	55262386	132081531	"	1
8947	315	55262460	132075723	"	1
8947	316	55261729	132074494	"	1
8947	317	55261406	132072417	"	1
8947	318	55261322	132071541	"	1
8947	319	55261723	132070841	"	1
8947	320	55262376	132070108	"	1
8947	321	55262198	132064691	"	1
8947	322	55262570	132062803	Δ Grindall 1912-15 RM#1	
8947	323	55263362	132063082	T-10698	
8947	324	55263928	132063576	"	
8947	325	55265057	132064650	Δ Approach 1915	
8947	326	55264905	132071752	T-10698	
8947	327	55264902	132073487	"	
8947	328	55265228	132075114	"	
8947	329	55270517	132103214	Δ Ren 1924	
8947	330	55272282	132082380	T-10698	
8947	331	55275128	132082636	"	
8947	332	55281522	132083150	"	
8947	333	55282813	132084990	"	
8947	334	55283873	132080917	Δ Streets 1915-24 ←	
8947	335	55283621	132092883	T-10698	
8947	336	55285859	132093918	"	
8947	337	55292716	132094800	"	
8947	338	55294093	132101652	T-11504	
8947	339	55295351	132102640	"	
8947	340	55301813	132104507	Δ Bo 1922	
8947	341	55303214	132111027	T-10694	
8947	342	55304185	132112688	"	

GEOGRAPHIC NAMES

Survey No. H-8947

Name on Survey	Source of Name											
	A	B	C	D	E	F	G	H	K			
clarence strait												1
Approach Point												2
Grindall Island												3
Grindall Passage												4
Grindall Point												5
Kasaan Bay												6
Kasaan Peninsula												7
Streets Island												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

PREPARED BY

Frank W. Richards
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright
CHIEF GEOGRAPHER

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. ~~H-8987~~ H-8987

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & P.O.		1	BOAT SHEETS		1	
DESCRIPTIVE REPORT		1	OVERLAYS		4	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES			1			
CAHIERS	1					
VOLUMES	6					
BOXES						

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1667
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS				
JUNCTIONS				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS		101		
ALL OTHER WORK		99		
TOTALS		200		
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY <i>LT(JG) Hogue, Ens Courtney, Richard Lynn</i>	12/21/67		22 July 1970	
REVIEW BY	BEGINNING DATE		ENDING DATE	

Verifiers Report

OPR-465

LJ-10-3-67

H-8947

The Position Number Overlay was verified by a Ships Officer while temporarily assigned to P.M.C. The Preliminary Sounding Overlay was verified by another Ships Officer under the same circumstances and no time was kept. This resulted in the verifier responsible for the Smooth Sheet. This system is not recommended for future verification of surveys. Forms C&GS-946 and 946A reflect only the time spent by this verifier making a cursory examination of this sheet plus the finishing touches, reports and records.

REN, 1924 a Δ station on this sheet is shown on H-8771 as a Topographic station. H-8771 is believed to be in error, (LITH. pg. 89 Vol I).

In many inshore areas delineation of the bottom configuration was not attempted due to lack of data.

Richard Lynn
Richard Lynn

Comparisons were made with USC&GS Chart 8142 5th Edition Jan. 10, 1966.

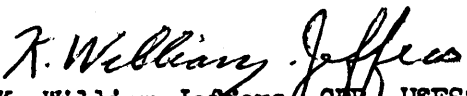
APPROVAL SHEET

The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's report.)

Examined and approved


William M. Martin
Supervisory Carto. Tech.

Approved and forwarded


K. William Jeffers, CDR, USESSA
Chief, Processing Division, PMC

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY, H 8947

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

CL - Check List Items: should be checked as having been completed during the verification processes.

R - Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<p>Note: The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>	✓		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.</p>	✓	
<p>2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None</p>	✓		<p>Part IV - VOLUMES 11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None</p>	✓	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	✓		<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>		✓
<p>Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>	✓				
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>	✓				
<p>6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 424 on the smooth sheet. Remarks Required: -- None</p>	✓				
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>			<p>Part V - PROTRACTING 13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>		
<p>Part III - JUNCTIONS Note: Make a cursory comparison preliminary to inking soundings in area of overlap.</p>			<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>		
<p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>	✓				
<p>9. The notation in slanted lettering "JOINS H--- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>	✓		<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	✓	

Part V - PROTRACTING (Continued)		CL	R	Part VIII - AIDS TO NAVIGATION		CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.				26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.			
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.				27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: -- None			
Part VI - SOUNDINGS				Part IX - BOATSHEET			
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None				28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None		✓	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.		✓		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		✓	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		✓		Part X - GENERAL			
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		✓		30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None		✓	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.		✓		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		✓	
Part VII - CURVES				32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None		✓	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.		AEE		33. The bottom characteristics are adequately shown. Remarks Required: -- None		✓	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed Remarks Required: -- None		✓		Part XI - NOTES TO THE REVIEWER			
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.		✓		34. Unresolved discrepancies and questionable soundings.			
				35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.			
				36. Supplemental information.		✓	

Verified by

LT(JG) Hogue, ENS. Courtney, Richard Lynn

Date

22 July 1970

